

AMENDMENTS TO THE CLAIMS

1-18. (Cancelled)

19. (Currently Amended) The method of claim 37 ~~claim 18~~, further comprising:
deciding a profile about the plurality of bursts;
generating a frame by encoding and modulating the plurality of bursts according to the
profile ~~to generate a frame~~; and
transmitting the frame including the map to the subscriber station.

20-32. (Cancelled)

33. (Currently Amended) The method of claim 39 ~~claim 32~~, further comprising:
adding, to the map, information on a user identification corresponding to each of the
plurality of bursts and information on a profile of each of the plurality of bursts.

34-35. (Cancelled)

36. (Currently Amended) The method of claim 40 ~~claim 35~~, further comprising:
checking information on a profile of the designated burst from the information on the
designated burst; and
demodulating and decoding the designated burst according to the profile.

37. (New) A method for allocating a radio resource by a base station, comprising:
determining, by the base station, a default resource within the radio resource, wherein the
radio resource includes a plurality of subchannels and a plurality of symbol intervals, and a size
of the default resource is determined using a number of available subchannels from among the
plurality of subchannels;

dividing the default resource into a plurality of bursts that are arranged in time order according to robustness;

designating a number of unit resources to be allocated to each of the plurality of bursts;

adding, to a map, information on the number of the unit resources allocated to each of the plurality of bursts, at least one index of each of the plurality of bursts, information on an order of each of the plurality of bursts, and information on the size of the default resource, wherein the at least one index is based on the size of the default resource; and

transmitting the map to a subscriber station.

38. (New) The method of Claim 37, wherein the at least one index includes an index of a start unit resource and an index of an end unit resource for each of the plurality of bursts.

39. (New) A method for transmitting a frame by a base station, comprising:

determining, by the base station, a default resource within the radio resource, wherein the radio resource includes a plurality of subchannels and a plurality of symbol intervals, and a size of the default resource is determined using a number of available subchannels from among the plurality of subchannels;

inserting a plurality of bursts into the frame, wherein the default resource is divided into the plurality of bursts, the plurality of bursts are arranged in a time order on the frame according to robustness, a position of each of the plurality of bursts is determined by designating a number of unit resources to be allocated to each of the plurality of bursts;

adding, to a map, information on the number of the unit resources allocated to each of the plurality of bursts, at least one index for each of the plurality of bursts, information on an order of each of the plurality of bursts, and information on the size of the default resource, wherein the at least one index is based on the size of the default resource;

inserting the map into the frame; and

transmitting the frame to a subscriber station.

40. (New) A method for accessing a radio resource, by a subscriber station, that is formed by a plurality of subchannels and a plurality of symbol intervals, comprising:

searching, by the subscriber station, information on a designated burst in a common control block,

wherein the common control block includes information on a number of unit resources allocated to each of a plurality of bursts forming a default resource, at least one index for each of the plurality of bursts, information on an order of each of the plurality of bursts, and information on a size of a default resource, and

wherein the at least one index is based on the size of the default resource, the default resource is at least partially included in the radio resource, and the size of the default resource is determined by a number of available subchannels from among the plurality of subchannels;

checking the number of the unit resources allocated to the designated burst and an order of the designated burst from the information on the designated burst;

searching the designated burst according the number of the unit resources to receive the designated burst, wherein the plurality of bursts are arranged in a time order on a frame according to robustness; and

terminating a receiving operation, when the designated burst is received.